

**ABSTRACT OF THE DISCLOSURE**

A system and method for controlling the heat of an ultrasonic transducer is disclosed. In the presently preferred embodiments, the system and method controls the temperature of the transducer by changing operating system parameters based on feedback from temperature sensing elements placed in the transducer. The chosen mutable system parameters  
5 may be preset by the construction of the ultrasonic system, under the control of the ultrasonic system user, or a combination of the two. In several exemplary embodiments, the one or more mutable system parameters are altered by an amount proportionate to the difference between the current temperature and a preferred operating temperature. In another exemplary embodiment, the system switches to a lower power imaging mode when the temperature feedback indicates a  
10 threshold temperature has been reached.